

Title (en)
A HIGH-DATA-RATE WIRELESS LOCAL-AREA NETWORK

Title (de)
DRAHTLOSES LOKALES NETZWERK MIT HOHER DATENRATE

Title (fr)
RESEAU LOCAL SANS FIL, A HAUT DEBIT

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Abstract (en)
[origin: WO9522859A1] An apparatus and method for communicating data between at least two data devices, suitable for use as a wireless local-area network, that provides robust data communication via a radio communication channel corrupted by multipath interference, particularly at high data rates. A preferred embodiment of the invention represents data as a sequence of Walsh-function waveforms (66) encoded by pseudo-noise direct-sequence spread-spectrum modulation (70). Walsh function encoding of the data provides a long symbol duration, thereby allowing the spread spectrum modulation to provide processing gain sufficient to substantially overcome multipath interference, while providing a high data rate.

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